			11102
	Application No.	Applicant(s)	
Notice of Allowability	10/645,478	KOIKE ET AL.	
	Examiner	Art Unit	
	Beth E. Owens	2824	
The MAILING DATE of this communication app All claims being allowable, PROSECUTION ON THE MERITS IS NOTICE OF ALLOWABILITY IS NOT A GRANT OF PATENT F of the Office or upon petition by the applicant. See 37 CFR 1.31 1. This communication is responsive to the restriction election 2. The allowed claim(s) is/are 1 and 5-8. 3. The drawings filed on 22 August 2003 are accepted by the 4. Acknowledgment is made of a claim for foreign priority uses a) All b) Some* c) None of the: 1. Certified copies of the priority documents have 2. Certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Copies of the certified copies of the priority documents have 3. Sopies of the certified copies of the priority documents have a copies of the priority documents have a copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the certified copies of the priority documents have a copies of the pr	G (OR REMAINS) CLOSED) or other appropriate common of the	in this application. If not included nunication will be mailed in due of subject to withdrawal from issue of subject to withdrawal from issue of the following with the requirement of the Cambridge and the control of the drawings in the front (not the Instruction). TERIAL must be submitted. No	ourse. THIS at the initiative on from the uirements OTICE OF
Attachment(s) 1. ☑ Notice of References Cited (PTO-892) 2. ☐ Notice of Draftperson's Patent Drawing Review (PTO-948) 3. ☑ Information Disclosure Statements (PTO-1449 or PTO/SB/Paper No./Mail Date 08222003 4. ☐ Examiner's Comment Regarding Requirement for Deposit of Biological Material	6. ☐ Interview Paper No 7. ⊠ Examiner	Informal Patent Application (PTO Summary (PTO-413), o./Mail Date s Amendment/Comment s Statement of Reasons for Allow MICHAEL S. LEBENTRI PRIMARY EXAMINER	vance T

Election/Restrictions

1. Applicant's election without traverse of Species 1 and cancellation of claims 2-4 and 9-17 in the reply filed on 29 October 2004 is acknowledged.

Examiner's Amendment

2. An examiner's amendment to the record appears below. Should the changes and/or additions be unacceptable to Applicant, an amendment may be filed as provided by 37 CFR 1.312. To ensure consideration of such an amendment, it MUST be submitted no later than the payment of the issue fee. In the Title:

Replace the title with the following: "Method of Formation of a Capacitor with a Solid Electrolyte Layer Comprising an Organic Semiconductor, and Method of Production of Circuit Board".

In the Claims:

Claim 1, line 10: insert --foil-- after "metal".

Claim 1, line 16: replace "thermo compression" with --thermo-compression--.

Allowance

- 3. Claims 1 and 5-8 are allowed.
- 4. The following is an examiner's statement of reasons for allowance:

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There is no prior art available nor obvious motivation to combine elements of prior art which teach a method of formation of a capacitor forming part of an electric circuit when producing a circuit board with that electric circuit built in, including the steps of: forming at a scheduled position for formation of the capacitor of the circuit board in the process of production a bottom electrode layer comprised of at least one type of valve metal selected from the group comprised of aluminum, tantalum, niobium, tungsten, vanadium, bismuth, titanium, zirconium, and hafnium; forming on said bottom electrode layer a dielectric layer comprised of an oxide of at least one type of valve metal selected from said group; and integrally forming on said dielectric layer a solid electrolyte layer comprised of an organic semiconductor and a top electrode layer comprised of metal foil on top; said step of integrally forming on said dielectric layer said solid electrolyte layer and top electrode layer including the steps of: making one surface of the top electrode metal foil carry powder of said organic semiconductor by compression bonding and forming a solid electrolyte layer comprised of said organic semiconductor sandwiched between said metal foil and said dielectric layer and closely bonded to the two by thermocompression bonding of organic semiconductor powder carried by compression bonding on said dielectric layer through said metal foil.

Any comments considered necessary by applicant must be submitted no later than the payment of the issue fee and, to avoid processing delays, should

preferably accompany the issue fee. Such submissions should be clearly labeled "Comments on Statement of Reasons for Allowance."

5. The following prior art, which is considered pertinent to applicant's disclosure although not relied upon, includes "Electrolytic Capacitor with Polymer Conductor" by Shaffer; "Solid Electrolytic Capacitor" by Tsuchiya et al.; "Charge Transfer Complex and Solid Electrolytic Capacitor Employing the Same" by Shindo et al.; "Fabrication Method of Solid Electrolytic Capacitor" by Kobayashi et al.; and "Method for Manufacturing Solid Electrolytic Capacitor Using Functional Polymer Electrolytic Composition" by Shin et al.

Conclusion

6. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Beth E. Owens, Ph.D. whose telephone number is 571.272.1882 and fax number for unofficial communications is 571.273.1882.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Richard Elms, can be reached on 571.272.1869. The fax phone number for the organization where this application or proceeding is assigned is 703.872.9306 for official communications.

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Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 571.272.2800.

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PRIMARY EXAMINER

BEO 11.28.04